

## Product datasheet for **MG217762**

### Rassf10 (NM\_175279) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rassf10 (NM_175279) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rassf10
Synonyms:	4632411J06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217762 representing NM\_175279  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATCCTTCGGAGAAGAAGATATCGGTGTGGATCTGCCAGGAGGAGAAGCTGGTGTCCGGCCTCTCCC  
 GCCGCACCACCTGCTCGGACGTGGTGC GGTTGCTTTTGGAGGACGGCTGCCGGCGCGCTGCAGGCAGCG  
 GCGGGGCCAGCGACGGGGCTTGACGAGGACCCCTCGGGCCAGTTGGAGCTGCCCGAGCCCCAGACGAA  
 AACGACGAGGATGACGACGACGCGATGCCCGGGCATGCTATGTGGCCCCCGCAGTGCTATTGCATTG  
 TGGAGAAGTGGCGCGCTTTGAGCGCATCTGCCCAACAAGACGCGGATCTTGCGCTCTGGACTGCTTG  
 GGGCGACGACGAGGAGAATGTACGCTTCGTGCTGGTGCAGCGAAGCGTCGCTGCCAACCGGACCG  
 CGCAGCGCCGAGGCGGGTGTGCTCAGCCGCGAGCGCCCTGCTTGGCCGGGGCGCCAGCACGGC  
 CCAGCCTGGCCTTGACCCAGGAGAAGCAGCGCGGGTGTACGCAAGGCCTTCGCAAACGGCCAAGCT  
 CAACCGGAGGCGCCAGCAGCAGCGTCTGTCACCTTGTTCGTCCAGTCGTCGTCACCGCCTCGTCTGC  
 TCGTCTGCTGCTCGGACCACGAGAGCGGTCGGTAGAACGTATGGAGACGCTGGTGCATCTGGTGTCTG  
 CGCAGGACCACAGATTCCGACGAGGTGCAGCGGCTCCGGGAGCTGGACCGCGAGATAGACCGCTACGA  
 AGCCAAGTGCACCTAGACCGCATGCGGAGGCACGGAGTCAACTACGTGCAGGATACCTATCTAGTGGGG  
 GCCGGCATCGACCTGGACGGACAACTCCTGAAGGGGAGCCGGAAGATGCGACACTGGAGGAGAAGGGGA  
 CAGAACCGGCGGCACCCCTGGACAGCGAGGCGCAGGCGGCGAGCGTTGGAGGAGCTGGCCAGGCGCTGTA  
 CGACCTGGTGGGCTGCAGGAGGAGCGGCCAGCAGGAGGAGTTGCTAGAGCGCCTGTCCGCCGAGATC  
 CAGGAGAACTGAACAGCGCTGGATGCAGCGGCGCAATGAGGAGCTGGCGGCTCGAGAGGAGTCCCTAG  
 AGCCCGATGGTGGTCCGGATGGCGAGCTGCTGCTGGAGCAGGAGCGGGTCAAGGAGCAGTCAGCACCAG  
 CCTTTACATCGGGCTGAGGCTCAGCACGGACTGGAGGCCGTCAAGGCGGACTTGGATTACAGCCAGCAG  
 CAGAGGGACATTAAGGAGCGGAGCTTCCAGGGCCTTCTCCAGAGTTTGCACACTTTTGGAGCAGCGTGG  
 TGCATGATGGGGCTCTGGGTTCCAGCGGACCTCTCGGAACCTCAGCCTCAGACCTGTGCAGAAATGTG  
 GGTAGACCAGGCCGGGACTGGCTAAGAGTTGCCGGGCAACGATGAGGACTCAGATACTGGGCTGAGC  
 TCCATGCATAGCCAAGACTCAGACTCGGTACCCCTGTGTGTGAATCCCTTGTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG217762 representing NM\_175279  
 Red=Cloning site Green=Tags(s)

MDPSEKKISVWICQEEKLVSLRRTTCSDVVRVLLLEDGCRRCRQRGQRRGLTEDPSGQLELPEPPDE  
 NDEDDDDAMP PGMLCGPPQCYCIVEKWRGFERILPNKTRILRLWTAWGDEQENRVFLVRSEASLPNAGP  
 RSAEARVVL SRERPC LARGAPARPSLAL TQEKQRRVVRKA FRKLAKLNR RRQQPSSPCSSTSSSTASSC  
 SSSARTHE SASVERMETLVHLVLSQDHTIRQQVQRLRELDREIDRYEAKVHLDRMRRHG VNYVQDTYLVG  
 AGIDL DGQTPEGEPEDATLEEKGT EPAAPLDSEAQAAL EELARRCDDL VRLQEERAQQEELLERLSAEI  
 QEELNQRW MQRNEELAAREESLEPDG GPDGELLEQERVRTQLSTSLYIGLRLSTDLEAVKADLDYSQQ  
 QRD IKERELQGLLQSLHTFEQTVVHDGALGSSGPSREPQPQTCAEMWVDQARGLAKSCPGNEDSDTGLS  
 SMHSQSDSVPPVCESLV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac  
Consensus

*EcoR I*      *BamH I* *Kpn I*      RBS      *Sgf I*      *Asc I*

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

*Hind III*      *Nhe I* *Rsr II*      *Mlu I*      *Not I*      *Xho I*      GFP Tag

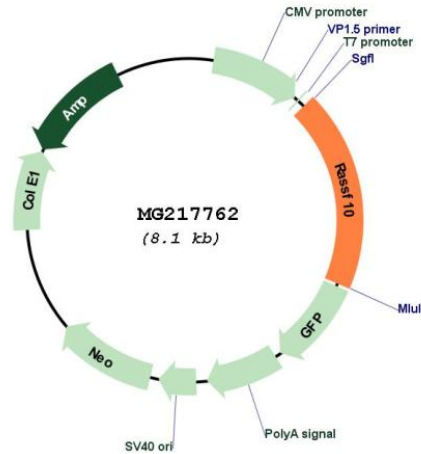
CAAGCTTAACTAGCTAGCGGACCG      ACG CGT      ACG CGG      CTC GAG      ATG GAG AGC GAC --- --- ---

T   R   T   R   P   L   E   M   E   S   D   -   -   -

*Pme I*      *Fse I*

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

**Plasmid Map:**


**ACCN:** NM\_175279

**ORF Size:** 1524 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_175279.3](#), [NP\\_780488.2](#)

**RefSeq Size:** 3497 bp

**RefSeq ORF:** 1527 bp

**Locus ID:** 78748

**UniProt ID:** [Q8BL43](#)

**Cytogenetics:** 7 F1

**Gene Summary:** Plays an important role in regulating embryonic neurogenesis.[UniProtKB/Swiss-Prot Function]